Docket No.

251363US

IN THE JUNITED TATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Takahiro OKUNO, et al.

SERIAL NO:

): 10/814,246

GAU:

2811

FILED:

April 1, 2004

EXAMINER:

FOR:

SEMICONDUCTOR DEVICE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR

Applicant(s) wish to disclose the following information.

REFERENCES

The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed
references are attached, where required, as are either statements of relevancy or any readily available English
translations of pertinent portions of any non-English language references.

☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the claims and drawings of the pending application(s) is attached.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number <u>15-0030</u>. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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LIST OF RELATED CASES

Docket Number	Serial or Patent Number	Filing or Issue Date	Inventor/ Applicant
208546US2S	09/853,661	05/14/01	TANAKA
227579US2S	10/230,119	08/29/02	TANAKA
232835US2S	10/354,048	01/30/03	YAMAGUCHI et al.
237756US2	10/437,060	05/14/03	TANAKA
243492US2S	10/677,260	10/03/03	TANAKA et al.
251363US2*	10/814,246	04/01/04	OKUNO et al.

Docket No.

251363US2/hc

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Takahiro OKUNO, et al.

SERIAL NO:

: 10/814,246

GAU:

FILED:

April 1, 2004

EXAMINER:

FOR:

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COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

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RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

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Respectfully submitted,

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STATEMENT OF RELEVANCY

Reference AO (JP 2003-204066) on Form PTO-1449:

This reference shows the capacity between gate collectors is reduced without running the effect of accumulation of the career in the trench gate type semiconductor device. (Fig. 1-5)

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 251363US2		SERIAL NO. 10/814,246				
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U.S. PATENT DOCUMENTS										
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	I. OMURA, et al., IEEE Transactions on Electron Devices, vol. 46, no. 1, pages 237-244, "OSCILLATION EFFECTS IN AW IGBT'S RELATED TO NEGATIVE CAPACITANCE PHENOMENA", January 1999									
	AX	I. OMURA, et al., Proceedings of ISPSD, pages 25-28, "IEGT DESIGN CONCEPT AGAINST OPERATION INSTABILITY AND ITS IMPACT TO APPLICATION", May 25, 2000								
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	AY									
	AZ			Additional References sheet(s) attached						
Examiner Date Considered										
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.										